

DATE: Wednesday, October 29, 2003 [Printable Copy](#) [Create Case](#)

Set Name Query  
side by side

Hit Count Set Name  
result set

*DB=; PLUR=YES; OP=ADJ*

L6 'alpha d' same (antibod\$) and (antibod\$) same (inhibit\$ or suppress\$ or block\$ or modulat\$) same (tnf\$ or tumor adj necrosis or tumour adj necrosis) 6 L6

L5 'alpha d' same (inhibit\$ or suppress\$ or block\$ or modulat\$) same (tnf\$ or tumor adj necrosis or tumour adj necrosis) 12 L5

L4 'alpha d' and (tnf\$ or tumor adj necrosis or tumour adj necrosis) 631 L4

L3 L1 and 'alpha d' 16 L3

*DB=USPT,PGPB; PLUR=YES; OP=ADJ*

L2 L1 and alphad 1 L2

L1 gallatin.in. 73 L1

END OF SEARCH HISTORY

## WEST

## End of Result Set

 [Generate Collection](#)  [Print](#)

L3: Entry 1 of 1

File: USPT

Jun 26, 2001

US-PAT-NO: 6251395

DOCUMENT-IDENTIFIER: US 6251395 B1

**\*\* See image for Certificate of Correction \*\*****TITLE:** Methods of inhibiting inflammation at the site of a central nervous system injury with alphaD-specific antibodies**DATE-ISSUED:** June 26, 2001**INVENTOR-INFORMATION:**

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gallatin; W. Michael	Mercer Island	WA	98040	
Van der Vieren; Monica	Seattle	WA	98107	

**US-CL-CURRENT:** 424/144.1, 424/130.1, 424/141.1, 424/143.1, 424/153.1, 424/154.1,  
424/173.1, 530/387.1, 530/388.1, 530/388.2, 530/388.22, 530/388.7, 530/388.73,  
530/388.75**CLAIMS:**

What is claimed is:

1. A method for inhibiting macrophage infiltration at the site of a central nervous system injury comprising the step of administering to an individual an effective amount of an anti-.alpha..sub.d monoclonal antibody.
2. The method according to claim 1 wherein the anti-.alpha..sub.d monoclonal antibody blocks binding between .alpha..sub.d and a binding partner.
3. The method according to claim 2 wherein the binding partner is VCAM-1.
4. The method according to claim 1 where the anti-.alpha..sub.d monoclonal antibody is selected from the group consisting of the monoclonal antibody secreted by hybridoma 226H (ATCC Accession No: HB-12592) and the monoclonal antibody secreted by hybridoma 236L (ATCC Accession No: HB-12593).
5. The method according to any one of claims 1 through 4 wherein the central nervous system injury is a spinal cord injury.
6. A method for reducing inflammation at the site of a central nervous system injury comprising the step of administering to an individual an effective amount of an anti-.alpha..sub.d monoclonal antibody.
7. The method according to claim 6 wherein the anti-.alpha..sub.d monoclonal antibody blocks binding between .alpha..sub.d and a binding partner.
8. The method according to claim 7 wherein the binding partner is VCAM-1.
9. The method according to claim 6 where the anti-.alpha..sub.d monoclonal antibody is selected from the group consisting of the monoclonal antibody secreted by hybridoma 226H (ATCC Accession No: HB-12592) and the monoclonal antibody secreted by hybridoma 236L (ATCC Accession No: HB-12593).

## WEST

Generate Collection

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L2: Entry 2 of 14

File: USPT

Aug 13, 2002

US-PAT-NO: 6432404

DOCUMENT-IDENTIFIER: US 6432404 B1

TITLE: Methods of inhibiting locomotor damage following spinal cord injury with  
.alpha. D-specific antibodies

DATE-ISSUED: August 13, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gallatin; W. Michael	Mercer Island	WA		
Van der Vieren; Monica	Snohomish	WA		

US-CL-CURRENT: 424/144.1, 424/130.1, 424/141.1, 424/143.1, 424/153.1, 424/154.1,  
424/173.1, 530/387.1, 530/388.1, 530/388.2, 530/388.22, 530/388.7, 530/388.73,  
530/388.75

## CLAIMS:

What is claimed is:

1. A method for promoting locomotor recovery following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
2. A method for inhibiting locomotor damage following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
3. A method of limiting locomotor impairment following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
4. A method of limiting autonomic and sensory dysfunction following spinal cord injury comprising the step of administering to a spinal cord injury victim an effective amount of an anti-.alpha..sub.d monoclonal antibody.
5. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody is secreted by a hybridoma selected from the group consisting of 217L (ATCC Accession No: HB12701) and 226H (ATCC Accession No: 12502).
6. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody competes with 217L (ATCC Accession No: HB 12701) or 226H (ATCC Accession No: 12502) for binding to .alpha..sub.d.
7. The method of any one of claims 1, 2, 3, or 4 wherein the anti-.alpha..sub.d monoclonal antibody inhibits .alpha..sub.d binding to an .alpha..sub.d ligand.
8. The method according to any one of claims 1, 2, 3, or 4 wherein the spinal cord injury comprises compression to the spinal cord.
9. The method of claim 7 wherein the .alpha..sub.d ligand is selected from the group consisting of ICAM-R and VCAM-1.

10. The method according to any one of claims 6 through 9 wherein the central nervous system injury is a spinal cord injury.



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 1007

**TO:** Phillip Gabel  
**Location:** 8b03 / 9e12  
**Friday, August 29, 2003**  
**Art Unit:** 1644  
**Phone:** 308-3997  
**Serial Number:** 09 / 891943

**From:** Jan Delaval  
**Location:** Biotech-Chem Library  
CM1-1E07  
**Phone:** 308-4498  
  
**jan.delaval@uspto.gov**

Search Notes

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
[jan.delaval@uspto.gov](mailto:jan.delaval@uspto.gov)

Delaval, Jan

102298

From: Gambel, Phillip  
Sent: Tuesday, August 26, 2003 9:26 AM  
To: Delaval, Jan  
Subj: ct: 09 / 891,943 ifw amd

jan

please perform a sequence and a sequence interference search for  
ussn 09 / 891,943 (ifw amd)

SEQ ID NO: 1

SEQ ID NO: 2

thanx

phillip gambel  
art unit 1644  
308-3997

1644 mailbox 9e12

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
jan.delaval@uspto.gov

Access DB# 102298

## SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name \_\_\_\_\_ Examiner # \_\_\_\_\_ Date \_\_\_\_\_  
Art Unit \_\_\_\_\_ Phone Number 30 \_\_\_\_\_ Serial Number \_\_\_\_\_  
Mail Box and Bldg Room Location \_\_\_\_\_ Results Format Preferred (circle) PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*  
Please provide a detailed statement of the search topic and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of invention \_\_\_\_\_

Inventors (please provide full names) \_\_\_\_\_

Earliest Priority Filing Date \_\_\_\_\_

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Jan Delaval  
Reference Librarian  
Biotechnology & Chemical Library  
CM1 1E07 - 703-308-4498  
jan.delaval@uspto.gov

STAFF USE ONLY  
Searcher Jan  
Searcher Phone # 4458  
Searcher Location 8/26/03  
Date Requested 8/28/03  
Searcher Initials JD  
Chemical Prep Time 15  
Total Time +15

Type of Search	Vendors and cost where applicable
NA Sequence (F)	STN
AA Sequence (F)	Dialog
Structure (F)	Chem3D Pro
Bibliographic	STN
Catalog	STN
Full Text	ScienceDirect
Patent Search	PTO, Espacenet
Other	Chem3D Pro

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score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## OM nucleic - nucleic search, using SW model

## SUMMARIES

Run on: August 28, 2003, 16:16:12 ; Search time 17399 Seconds  
(without alignments)  
8760.805 Million cell updates/sec

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Scoring table: IDENTITY\_NUC  
GapOp 10.0 , GapExt 1.0

Searched: 288711 seqs, 20454813386 residues  
Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries  
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3: gb\_in: \*  
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5: gb\_ov: \*  
6: gb\_pat: \*  
7: gb\_ph: \*  
8: gb\_pl: \*  
9: gb\_pr: \*  
10: gb\_ro: \*  
11: gb\_sts: \*  
12: gb\_sy: \*  
13: gb\_un: \*  
14: gb\_vl: \*  
15: em\_ba: \*  
16: em\_fun: \*  
17: em\_hum: \*  
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22: em\_ov: \*  
23: em\_pat: \*  
24: em\_ph: \*  
25: em\_pl: \*  
26: em\_ro: \*  
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29: em\_vl: \*  
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31: em\_htg\_inv: \*  
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33: em\_htg\_mus: \*  
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35: em\_htg\_rod: \*  
36: em\_htg\_mam: \*  
37: em\_htg\_vrt: \*  
38: em\_sy: \*  
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40: em\_htgo\_mus: \*  
41: em\_htgo\_other: \*

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4	3726	100.0	3726	6 AR18011	AR18011 Sequence
5	3726	100.0	3726	6 AR222661	AR222661 Sequence
6	3726	100.0	3726	6 AX48965	AX48965 Sequence
7	3726	100.0	3726	6 AR052220	AR052220 Sequence
8	3726	100.0	3726	6 AR150911	AR150911 Sequence
9	3726	100.0	3726	6 I13528	I13528 Sequence 1
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15	3699	99.3	3785	6 AR22741	AR22741 Sequence
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39	2304.2	61.8	3597	6 AR055178	AR055178 Sequence
40	2304.2	61.8	3597	6 AR150949	AR150949 Sequence
41	2304.2	61.8	3597	6 AR22699	AR22699 Sequence
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## ALIGNMENTS

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LOCUS AR044695 Sequence 1 from patent US 5817515. DNA linear PAT 29-SEP-1999  
DEFINITION  
ACCESSION AR044695  
VERSION AR044695.1 GI:5966160  
KEYWORDS  
SOURCE Unknown  
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 3726)

AUTHORS Gallatin, W. Michael. and Van der Vieren, M.  
TITLE Human B2 integrin alpha subunit antibodies  
JOURNAL Patent: US 5817515-A, 06-OCT-1998;  
FEATURES Location/Qualifiers

Pred. No. is the number of results predicted by chance to have a



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Run on:

August 28, 2003, 16:12:37 ; Search time 1136 Seconds  
(without alignments)  
8853.967 Million cell updates/sec

OM nucleic - nucleic search, using sw model

Title: US-09-891-943-1  
Perfect score: 3726  
Sequence: 1 tgcccttcggactgtgtt.....agcataaaatccatatgtc 3726  
Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters:  
Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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25: /SIDS1/gcdata/geneseq/geneseq/geneseq-emb1/NA2005.DAT:\*

ALIGNMENTS

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AAQ91712  
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AC AAQ91712;  
XX  
DT 26-DEC-1995 (first entry)  
XX  
DE Human bera-2 integrin alpha-d cDNA.  
XX  
KW Beta-2 integrin alpha-d subunit; antiinflammatory; arteriosclerosis; inflammatory bowel disease; asthma; ss.  
XX  
OS Homo sapiens.  
XX  
PN WO9517412-A1.  
XX  
PD 29-JUN-1995.  
XX  
PF 21-DEC-1994; 94W0-US14832.  
XX  
PR 05-AUG-1994; 94US-0266889.  
PR 23-DEC-1993; 93US-0173497.  
XX  
PA (ICOS-) ICOS CORP.  
XX  
PI Gallatin WM, Van Der Vieren M;

pred. No. is the number of result predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	DB ID	Description
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20	3583	95.2	3955 24 ABK82483	Mouse alpha-d codi
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23	3583	92.1	3803 19 AAV75273	Mouse alpha-d integr
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34	3583	92.1	3597 21 AAM60052	Rat alpha-d coding
35	3583	92.1	3597 24 ABK82442	Rat cDNA encoding
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37	3583	92.1	3597 16 AAO71740	Rat alpha-d compso
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39	3583	92.1	3597 20 AAV78476	Rat beta-2 integr
40	3583	92.1	3597 21 AAM60052	Rat alpha-d enco
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GenCore version 5.1.6

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Gapop 10.0 , Gapext 1.0

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

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4	3699	99.3	3785	11	US-09-891-943-98
5	3583	96.2	3956	11	US-09-891-943-97
6	3583	96.2	3803	9	US-09-350-259-52
7	2115.2	62.1	3803	11	US-09-891-943-52
8	2315.2	62.1	3803	11	US-09-891-943-52
9	2304.2	61.8	3597	9	US-09-350-259-54
10	304.2	61.8	3597	11	US-09-891-943-54
11	2300.2	61.7	3528	9	US-09-350-259-36
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13	2210.8	59.3	3519	9	US-09-350-259-45
14	2210.8	59.3	3519	11	US-09-891-943-45
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Database : ALIGNMENTS

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	APPLICANT: Van der Vieren, Monica
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	FILE REFERENCE: 21866735004
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	CURRENT FILING DATE: 1999-07-08
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	EARLIER FILING DATE: 1998-11-16
	EARLIER APPLICATION NUMBER: 08/173,497
	EARLIER FILING DATE: 1993-12-23
	EARLIER APPLICATION NUMBER: 08/286,889
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	FEATURE: CDS
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GenCore version 5.1.6  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

**SUMMARIES**

Result No.	Score	% Query Match	Length	DB ID	Description
1	3726	100.0	3726	1	US-08-173-497-1
2	3726	100.0	3726	1	US-08-286-889-1
3	3726	100.0	3726	1	US-08-485-618-1
4	3726	100.0	3726	1	US-08-362-652-1
5	3726	100.0	3726	1	US-08-482-293A-1
6	3726	100.0	3726	2	US-08-943-363-1
7	3726	100.0	3726	2	US-09-193-043-1
8	3726	100.0	3726	4	US-09-688-307A-1
9	3726	100.0	3726	4	US-08-485-618-98
10	3699	99.3	3785	1	US-08-485-618-98
11	3699	99.3	3785	2	US-08-492-293A-98
12	3699	99.3	3785	2	US-08-943-363-98
13	3699	99.3	3785	3	US-09-193-043-98
14	3699	99.3	3785	4	US-09-688-307A-98
15	3699	99.3	3785	4	US-08-485-618-97
16	3583	96.2	3956	1	US-08-605-672-98
17	3583	96.2	3956	2	US-08-482-293A-97
18	3583	96.2	3956	2	US-08-943-363-97
19	3583	96.2	3956	3	US-09-193-043-97
20	3583	96.2	3956	4	US-09-688-307A-97
21	3583	96.2	3956	4	US-08-485-618-52
22	3155.2	62.1	3803	1	US-08-362-652-52
23	3155.2	62.1	3803	1	US-08-605-672-52
24	3155.2	62.1	3803	1	US-08-482-293A-52
25	3155.2	62.1	3803	2	US-08-943-363-52
26	3155.2	62.1	3803	2	US-09-193-043-52
27	3155.2	62.1	3803	3	US-09-193-043-52

**ALIGNMENTS**

RESULT 1  
US-08-173-497-1  
Sequence 1, Application US/08173497  
Patent No. 5437958

GENERAL INFORMATION:

APPLICANT: Gallatin, W. Michael  
TITLE OF INVENTION: No. 5437958el Human 2 Integrin  
TITLE OF INVENTION: Subunit  
NUMBER OF SEQ ID NOS: 29  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &  
STREET: 233 S. Wacker Drive, 6300 Sears Tower  
CITY: Chicago  
STATE: Illinois  
COUNTRY: USA  
ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/173,497  
FILING DATE: 1997-08-08  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: No. 5437958and, Gretta E.  
REGISTRATION NUMBER: 35,302  
REFERENCE DOCKET NUMBER: 27866/31363  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 312-471-6300  
TELEFAX: 312-474-0448  
TELEX: 25-3855  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3726 base Pairs  
FEATURE:  
NAME/KEY: CDS  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
LOCATION: 3..3485

US-08-173-497-1

Query Match 100.0%; Score 3726; DB 1; Length 3726; Best Local Similarity 100.0%; Pred. No. 0; Matches 3726; Conservative 0; Mismatches 0; In





Db	4 TRAALUFTALATSLGFNLDEBLTAFRUDSAFGFDSWQFANSWTVVAGPQKITAQNT	Db	1082 LPGQBAFMRAQTIVLEKYKVNPTPLIVGSSIGGLLALITAVLYKUGFFKRVKEMM
Qy	61 GRUYDCAATGMQPIPHIRPEAVANNISLGLTAAASINGSLILACPTLHRCGENYSK	Qy	1137 EDKPDEDTAFSG
Db	64 GGLYOCGYSTGACERPIGQVPPRANNISLGLTAAASINGSLILACPTLHRCGENYSK	Db	1142 EEANGQIAPENG
Qy	121 GSCLLULGSRWEIITQVTPATPBCPQFQSMIDIVLIDSGSIDONDFQNMKGIVQAVNGQFE	Db	180 RWHWJB
Db	124 GLCFGLGT-QLATORLPSVRSQCBPQRQDIPDIVLIDSGSIDSRNFAATMTRAVISQFO	Qy	182
Qy	181 GPTQTFALMOMSYNLKIHFTFTFRTRPSQSLIVDPIVQLGTERATGILTVWQFLFH	Db	183 RPSTQFSLQMFSNKFQHTFEEFRTRSNPLSLLASPHOLOCFPTVATONVHRLFRA
Db	241 KNGARKSAKMKLIVITQKQYKPUJESDVIPQAEKAGITRYAIGGHAFQGPTAQELN	Qy	242 A28915; A41600; A30892; A32218; A46526; A26091; I52567
Db	243 SYGARATRKINLIVITQKQYKPUJESDVIPQAEKAGITRYAIGGHAFQGPTAQELN	Db	301 TISSAPPDHVKUDNPALGSIQKQBEKYAVEGJTSQRASSSFQHEMSEGGFSTALTM
Qy	302	Db	360 DIASKPSQEHTRKVEDFALKIQNQJKEKFAIEETTSSSFLEMAQGFSVFTP
Qy	361 DGLFLGAVGSFSMSGFGLYPPNMSPTFINNSQENTDMRDYLYGTTTELAWKGQYQNLV	Db	363 DGPVLGAVGSFTWMSGFGLYPPNMSPTFINNSQENTDMRDYLYGTTTELAWKGQYQNLV
Db	420 GAPPYRQHNGKAVIFTQPSRQWKKKAEGTGTGQSYGASLSQVWVSDGSTDLINGAP	Qy	421 GAPPYRQHNGKAVIFTQPSRQWKKKAEGTGTGQSYGASLSQVWVSDGSTDLINGAP
Db	422 GAPPYRQHNGKAVIFTQPSRQWKKKAEGTGTGQSYGASLSQVWVSDGSTDLINGAP	Db	423 GAPPYRQHNGKAVIFTQPSRQWKKKAEGTGTGQSYGASLSQVWVSDGSTDLINGAP
Qy	481 YEQTRGGQVSVCPPLPGQQRVQWQCDAVLRLGEQGHMGRFGALTULGDNNEDKIDVAI	Db	482
Db	482	Qy	483 YEQTRGGQVSVCPPLPGQWR_BWCDAVLYEQGHMGRFGALTULGDNNEDKIDVAI
Qy	541 GAGPGEQENRGAVYLFFHGEASEGTSPSHSQRTASSQSLSPRLQFGQMLQSGGDLTODGLMD	Db	542 GARGEDENRGATVLFHGVLGPSISPSHSQRTAGSQSSRLQYFGQMLQSGGDLTODGLMD
Db	601 LAVGARSGVLLRLSPVLPKVGAMRSPVPEVAKAVTRWEEKPSALEAGDATVUQKS	Qy	601 LAVGARSGVLLRLSPVLPKVGAMRSPVPEVAKAVTRWEEKPSALEAGDATVUQKS
Db	602 LAVGARGVQVLLTRPILWVGSMQFIPAEIRPSAECREQVSBOTLVSNICNIDKR	Qy	602 LAVGARGVQVLLTRPILWVGSMQFIPAEIRPSAECREQVSBOTLVSNICNIDKR
Qy	661 SUDQLG--DIOSSVRFDQLCPGRLSRAISRAINFNETKPTLTKRKGIGHCTKLMLPD	Db	661 SUDQLG--DIOSSVRFDQLCPGRLSRAISRAINFNETKPTLTKRKGIGHCTKLMLPD
Db	662 SKNLGLSRDLOSSVTLQDQLDGPRLSPRATFOETKRSLSRVRLGKAHCFENFLILPS	Qy	662 SKNLGLSRDLOSSVTLQDQLDGPRLSPRATFOETKRSLSRVRLGKAHCFENFLILPS
Qy	719 CYPDVSPILHNFSLYREPPSPQNLRPVLAVGSDPLFTASLPPFKNCQDGLCEGDL	Db	720 CYPDVSPILHNFSLYREPPSPQNLRPVLAVGSDPLFTASLPPFKNCQDGLCEGDL
Db	721 CVDPSMPLTILNFTWVKGPLAFLNRPMLAODQYRFFASPLPEKNGADHCCQDNL	Qy	721 CVDPSMPLTILNFTWVKGPLAFLNRPMLAODQYRFFASPLPEKNGADHCCQDNL
Qy	779 GVTLSFSGIQLTIVGSSLELNVIVTWNAGEDSYGTWVSLYYPAGSHRRVSGADQPHQ	Db	779 GVTLSFSGIQLTIVGSSLELNVIVTWNAGEDSYGTWVSLYYPAGSHRRVSGADQPHQ
Db	782 GISFSFQQLKSLVGSNLELNAEVMWMDGDESYGTTFSIPAGSYRTVAEGOKQGQL	Qy	782 GISFSFQQLKSLVGSNLELNAEVMWMDGDESYGTTFSIPAGSYRTVAEGOKQGQL
Qy	839 SALRLACETVPTDEGEGRSSRSVNHDFHGSNGTIVTVDSYVATGDRMIMBAS	Db	839 SALRLACETVPTDEGEGRSSRSVNHDFHGSNGTIVTVDSYVATGDRMIMBAS
Db	842 RSLHLTCOSAPVGSGQTSRTRCRNHLFRGGAQITFLATFDVSPVAVGLDRLLTANVS	Qy	842 RSLHLTCOSAPVGSGQTSRTRCRNHLFRGGAQITFLATFDVSPVAVGLDRLLTANVS
Qy	899 SENPKASSKAKFQLELPVKVAVYTMISMRQESTKFNFAFSDEKOMKAEHRYVNL	Db	899 SENPKASSKAKFQLELPVKVAVYTMISMRQESTKFNFAFSDEKOMKAEHRYVNL
Db	902 SENNPTRTSKTFQELPVLVKVAVYTMISMRQESTKFNFAFSDEKOMKAEHRYVNL	Qy	902 SENNPTRTSKTFQELPVLVKVAVYTMISMRQESTKFNFAFSDEKOMKAEHRYVNL
Qy	959 QRDLSAISNFWTPVLUVGMVW-DVWMEAP-SQSLPCVUSERKPPQHISDFLTOQISRSPMLD	Db	959 QRDLSAISNFWTPVLUVGMVW-DVWMEAP-SQSLPCVUSERKPPQHISDFLTOQISRSPMLD
Db	962 QRDLPVPSINFWPEVLEQAEWMDVWVSHPQNPLSLCSSEKIAAPPDFLHJQVPLD	Qy	962 QRDLPVPSINFWPEVLEQAEWMDVWVSHPQNPLSLCSSEKIAAPPDFLHJQVPLD
Qy	1017 CSIAADCLQPRCDVPSVSOEELDFTLKGNSFGWVETLOKRVLYVVAEITEDTSVYSQ	Db	1017 CSIAADCLQPRCDVPSVSOEELDFTLKGNSFGWVETLOKRVLYVVAEITEDTSVYSQ
Db	1022 CSJAGCLFRCDVPSVSOEELDFTLKGNSFGWVETLOKRVLYVVAEITEDTSVYSQ	Qy	1022 CSJAGCLFRCDVPSVSOEELDFTLKGNSFGWVETLOKRVLYVVAEITEDTSVYSQ
Qy	1077 I.PQQAENRAQEMULSEDEVNIAPIMGSSVGAALLAATITKLGFKRKHKEML	Db	1077 I.PQQAENRAQEMULSEDEVNIAPIMGSSVGAALLAATITKLGFKRKHKEML
Qy	1136	Db	1136

RESULT 2

RWMBJIB

cell surface glycoprotein CD1b precursor [validated] - human

N;Alternate names: complement receptor type 3 alpha chain; leukocyte adhesion protein; eukocyte integrin alpha chain; neutrophil adherence receptor alpha chain

C;Species: Homo sapiens (man)

C;Date: 31-Dec-1992 #sequence revision 31-Dec-1992 #text change 31-Dec-2000

C;Accession: A31108; A28915; A41600; A30892; A32218; A46526; A26091; I52567

R;Corbi, A.L.; Kishimoto, T.K.; Miller, L.J.; Springer, T.A.

J. Biol. Chem. 263: 12403-12411, 1988

A;Title: The human leukocyte adhesion glycoprotein Mac-1 (complement receptor type 3

B;A;Note: part of this sequence was confirmed by protein sequencing

R;Arnaout, M.A.; Gupta, S.K.; Pierce, M.W.; Tenen, D.G.

J. Cell Biol. 106: 2123-2180, 1986

A;Title: Amino acid sequence of the alpha subunit of human leukocyte adhesion receptor

A;Reference number: A41600; MUID:9207318; PMID:1683702

A;Accession: A41600

A;Molecule type: DNA

A;Accession: A28915

A;Molecule type: mRNA

A;Residues: 1-499, 501-965, P, 967-1153 <AFN>

A;Cross-references: GB: M1844; GB: J052270; GB: M19664; GB: X07421; NID: 9186935; PIDN: AA

A;Note: the authors translated the codon TAC for residue 1129 as Thr

R;Shelley, C.S.; Arnaout, M.A.

Proc. Natl. Acad. Sci. U.S.A. 89: 10525-10529, 1992

A;Title: The promoter of the CD1b gene directs myeloid-specific and developmentally

A;Reference number: A41600; MUID:9207318; PMID:1683702

A;Accession: A41600

A;Molecule type: mRNA

A;Accession: A30892

A;Molecule type: tRNA

A;Cross-references: GB: X76724; NID: 9180018; PIDN: AA58410; PID: 9553215

R;Arnaout, M.A.; Remold-O'Donnell, E.; Pierce, M.W.; Harris, P.; Tenen, D.G.

Proc. Natl. Acad. Sci. U.S.A. 85: 2716-2780, 1988

A;Title: Molecular cloning of the alpha-subunit of human and guinea pig leukocyte adhesion receptor

A;Reference number: A41600; MUID:88190151; PMID:2833753

A;Accession: A30892

A;Molecule type: tRNA

A;Cross-references: GB: M1844

R;Hicks, D.D.; Hickey, M.J.; Ozols, J.; Baker, D.M.; Back, A.L.; Roth, G.J.

Proc. Natl. Acad. Sci. U.S.A. 86: 257-261, 1989

A;Title: cDNA sequence for the alpha1 subunit of the human neutrophil adherence receptor

A;Reference number: A32218; MUID: 89098893; PMID: 2563162

A;Accession: A32218

A;Cross-references: 9-1153 <HIC>

A;Molecule type: mRNA

A;Residues: 9-1153

A;Cross-references: GB: J04145; NID: 9189069; PIDN: AA59903; 1; PID: 9386975

A;Note: part of this sequence was confirmed by protein sequencing

R;Pierce, J.C.; Pahl, H.L.; Gonzalez, D.A.; Smith, T.F.; Tenen, D.G.

J. Immunol. 150: 480-490, 1993

A;Title: Structural analysis of the CD1b gene and phylogenetic analysis of the alpha

A;Reference number: A46526; MUID: 93123748; PMID: 8419480

A;Accession: A46526

A;Status: not compared with conceptual translation

A;Molecule type: DNA

A;Residues: 1-499, 501-1153 <FILE>

A;Cross-references: GB: S55227; NID: 9263047; PIDN: AB24821; 1; PID: 9263049

A;Note: the last three bases of inton 13, CAG, are included in some but not all mat

R;Pierce, M.W.; Remold-O'Donnell, E.; Todd III, R.P.; Arnaout, M.A.

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM protein - protein search, using sw model

Run on:

August 26, 2003, 10:24:48 ; Search time 29 Seconds

(without alignments)  
1882.690 Million cell updates/sec

Title: US-09-891-943-2

Perfect score: 5987  
Sequence: 1 TFGTIVLILSVLASYHGFNLDD.....DRAFTSGDDPSCVAPNPLS 1161

Scoring table: BLOSUM62

Gapext 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : SwissProt\_41:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	5987	100.0	1162	1 ITAD_HUMAN
2	3815	63.7	1163	1 ITAD_HUMAN
3	3439.5	57.4	1152	1 ITAD_HUMAN
4	3439.5	55.6	1153	1 ITAM_MOUSE
5	1476	24.7	1170	1 ITAL_HUMAN
6	1457.5	24.3	1163	1 ITAL_MOUSE
7	1156.5	17.3	1167	1 ITAE_MOUSE
8	1148	19.2	1179	1 ITAE_HUMAN
9	1146.5	19.1	1189	1 ITAH_HUMAN
10	1131.5	18.9	1167	1 ITAG_HUMAN
11	1030.5	17.2	1151	1 ITAI_HUMAN
12	1030.5	17.2	1180	1 ITAI RAT
13	1012	16.9	1178	1 ITA2_MOUSE
14	1007.5	16.8	1170	1 ITA2_BOVINE
15	1007.5	16.8	1181	1 ITA2_HUMAN
16	634.5	10.9	1038	1 ITA4_HUMAN
17	646.5	10.8	1039	1 ITA4_MOUSE
18	585.5	9.8	1032	1 ITA4_XENLA
19	584.5	9.8	1035	1 ITA4_HUMAN
20	579.5	9.7	1053	1 ITA3_MOUSE
21	570.5	10.6	1053	1 ITA3_CETSP
22	554	9.3	1049	1 ITAS_HUMAN
23	547	9.1	1039	1 ITAB_HUMAN
24	540.5	9.0	1066	1 ITA3_HUMAN
25	538	9.0	1033	1 ITAB_MOUSE
26	535.5	8.9	1053	1 ITAB_CHICK
27	534	8.9	1034	1 ITAV_CHICK
28	534	8.9	1050	1 ITAS_XENLA
29	525.5	8.8	1396	1 ITA2_DROME
30	497	8.8	1044	1 ITAV_MOUSE
31	496.5	8.3	1072	1 ITA6_CHICK
32	493	8.2	1048	1 ITAV_HUMAN
33	490	8.2	1146	1 ITAI_DROME

### ALIGNMENTS

RESULT 1	ITAD_HUMAN	STANDARD;	PRT; 1162 AA.
ID	ITAD_HUMAN		
AC	Q3349; Q15575; Q15576;		
DT	16-OCT-2001 (Rel. 40, Created)		
DT	16-OCT-2001 (Rel. 40, Last sequence update)		
DE	Integrin alpha-D precursor (Leukointegrin alpha D) (CD11d) (ADB2).		
GN	ITGAD.		
OS	Homo sapiens (Human).		
OC	Batrachota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;		
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
OX	NBGI_TAXID=606;		
RN	[1]		
RP	SEQUENCE FROM N.A.		
RC	TISSUE-Spleen;		
RX	MEDLINE=96111956; PubMed=8777714;		
RA	Van der Vieren M, Le Trong H, Wood C.L., Moore P.F., St John T.,		
RA	Saunton D.E., Gallatin W.M.;		
RT	"A novel leukointegrin, alpha d beta 2, binds preferentially to ICAM-3.",		
RL	Immunity 3:683-690 (1995).		
RN	[2]		
RP	SEQUENCE OF 1-235 FROM N.A.		
RX	MEDLINE=2017620; PubMed=10722744;		
RA	Noti J.D., Johnson A.K., Dillon J.D.,		
RA	RT "Structural and functional characterization of the leukocyte integrin gene Child. Essential role of SPl and Sp3.";		
RA	J. Biol. Chem. 275:8959-8969 (2000).		
RN	[3]		
RP	SEQUENCE OF 467-537, 571-602, 633-666, 788-834 AND 910-1125 FROM N.A.		
RX	MEDLINE=96227236; PubMed=8666899;		
RA	Wang D.A., Davis B.M., Lebeau M., Springer T.A.;		
RT	"Cloning and chromosomal localization of a novel gene-encoding a human beta 2-intein alpha subunit."		
RT	beta 2-intein alpha subunit."		
RL	Gene 171:291-294 (1996).		
RN	[4]		
RP	INTERACTION WITH VCAM1.		
RX	MEDLINE=99059842; PubMed=9949322;		
RA	Grayson M.H., Van der Vieren M., Sterbinsky S.A., Michael Gallatin W.,		
RA	Hoffman P.A., Saunton D.E., Bocchini B.S.;		
RT	"Alpha beta 2 integrin is expressed on human eosinophils and functions as an alternative ligand for vascular cell adhesion molecule 1 (VCAM-1)."		
RT	J. Exp. Med. 188:2187-2191 (1998).		
RL	INTERACTION WITH VCAM1.		
RX	[5]		
RP	INTERACTION WITH VCAM1.		
RX	MEDLINE=9933002; PubMed=10438935;		
RA	Van der Vieren M., Crowe D.T., Hoefstra D., Vazeux R., Hoffman P.A.,		
RA	RA "The leukocyte integrin alpha D beta 1 binds VCAM-1: evidence for a binding interface between I domain and VCAM-1.";		
RA	J. Immunol. 163:1941-1946 (1999).		
CC	"- FUNCTION: INTEGRIN ALPHA-D/BETA-2 IS A RECEPTOR FOR ICAM3 AND VCAM1. MAY PLAY A ROLE IN THE ATHEROSCLEROTIC PROCESS SUCH AS CLEARING LIPOPROTEINS FROM PLAQUES AND IN PHAGOCYTOSIS OF BLOOD.		

CC BORNE PATHOGENS, PARTICULATE MATTER, AND SENESENT ERYTHROCYTES  
FROM THE BLOOD.

CC SUBUNIT: HETEROIMER OF AN ALPHA AND A BETA SUBUNIT. ALPHA-D  
ASSOCIATES WITH BETA-2.

CC SUBCELLULAR LOCATION: Type I membrane protein.

CC TISSUE SPECIALIVITY: EXPRESSED MODERATELY ON MYELOMONOCYTIC CELL LINES AND SUBSETS OF PERIPHERAL BLOOD LEUKOCYTES AND STRONGLY ON TISSUE-SPECIALIZED CELLS, INCLUDING MACROPHAGES, FOAM CELLS WITHIN ATHEROSCLEROTIC PLAQUES, AND ON SPENIC RED PULP MACROPHAGES.

CC WITH I-DOMAINS DO NOT UNDERGO PROTEASE CLEAVAGE.

CC SIMILARITY: BELONGS TO THE INTEGRIN ALPHA CHAIN FAMILY.

CC SIMILARITY: Contains 1 VWA domain.

CC SIMILARITY: Contains 7 FG-GAP repeats.

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

CC

DR EMBL: U37028; AAC8847.1; -

DR EMBL: U40374; AAB60634.1; -

DR EMBL: U40275; AAB60635.1; -

DR EMBL: U40276; AAB60636.1; -

DR EMBL: U40277; AAB60637.1; -

DR EMBL: U40278; AAB60638.1; -

DR EMBL: U40279; AAB60638.1; JOINED.

DR EMBL: AF17881; AAC62875.1; -

DR HSSP: P1215; IABX.

DR Genev; HGNC:6146; ITGAD.

DR MIN; 602453; -

DR GO; 0008305; C:integrin complex; TAS.

DR GO; 0004895; P:cell adhesion receptor activity; TAS.

DR GO; 0016337; P:cell-cell adhesion; NAS.

DR GO; 0007160; P:cell-matrix adhesion; NAS.

DR InterPro; IPR00413; INTEGRIN\_alpha.

DR InterPro; IPR0035; VWF\_A.

DR Pfam; PF0039; FG-GAP; 3.

DR Pfam; PF00357; integrin\_A; 1.

DR Pfam; PF00092; vwa; 1.

DR PRINTS; PRO185; INTEGRINA.

DR PRINTS; PRO0453; VWFADOMAIN.

DR SMART; SM00191; Int\_alpha; 4.

DR SMART; SM0327; VWA; 1.

DR PROSITE; PS00242; INTEGRIN\_ALPHA; 1.

DR PROSITE; PS00234; VWFA; 1.

KW Integrin; Cell adhesion; Receptor; Glycoprotein; Transmembrane; Signal; Repeat; Calcium; Magnesium.

FT SIGNAL 1 17 POTENTIAL.

FT CHAIN 18 1162 INTEGRIN ALPHA-D.

FT DOMAIN 18 1100 EXTRACELLULAR (POTENTIAL).

FT TRANSMEM 1101 1124 POTENTIAL.

FT DOMAIN 1125 1162 CYTOSMATIC (POTENTIAL).

FT REPEAT 3 2 85 FG-GAP 1.

FT REPEAT ? ? FG-GAP 2.

FT DOMAIN 150 332 VWFA.

FT REPEAT 350 400 FG-GAP 3.

FT REPEAT 40 452 FG-GAP 4.

FT REPEAT 454 516 FG-GAP 5.

FT REPEAT 518 576 FG-GAP 6.

FT REPEAT 581 633 FG-GAP 7.

FT CA\_BIND 475 473 POTENTIAL.

FT CA\_BIND 530 538 POTENTIAL.

FT CA\_BIND 593 601 POTENTIAL.

FT SITE 1127 1131 GRPFKR MOTIF.

FT DISULFID 67 74 BY SIMILARITY.

FT DISULFID 106 124 BY SIMILARITY.

FT DISULFID 65 710 BY SIMILARITY.

FT DISULFID 769 775 BY SIMILARITY.

FT DISULFID 845 861 BY SIMILARITY.

FT DISULFID 994 1018 BY SIMILARITY.

FT DISULFID 1023 1028 BY SIMILARITY.

FT CARBOHYD 59 59 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 87 87 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 99 99 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 391 391 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 691 691 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 733 733 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 873 873 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 957 957 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 1046 1046 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 500 500 MISSING (IN REF. 2).

FT CONFLICT 515 518 GHPW -> ATP (IN REF. 2).

FT CONFLICT 825 825 L -> V (IN REF. 2).

FT CONFLICT 984 984 V -> A (IN REF. 2).

SO SEQUENCE 1162 AA: 116855 MR: F2961A3455D7D C3C64;

QY Query Match 100.0%; Score 5987; DB 1; Length 1162;

Db Best Local Similarity 100%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0; Matches 1161; Conservative 0;

QY 1 TFGTVLILSVIAYSHGFLNLDVEEFTIQDAGGQGSVWFGSRS;VWGAPEVAAANT 60

QY 2 TFGTVLILSVIAYSHGFLNLDVEEFTIQDAGGQGSVWFGSRS;VWGAPEVAAANT 61

Db 181 GSTDTLFALMQSNLNUKIHFTFQRTTSPSQSLUDPIVOLKGLTTATGILTVTQLEHH 240

Db 182 GSTDTLFALMQSNLNUKIHFTFQRTTSPSQSLUDPIVOLKGLTTATGILTVTQLEHH 241

Db 61 GRILYDAAATNCQCPILHTRPEATNMSGLTIASTNSRLLACGPTLHRVGENNSK 120

Db 62 GRILYDAAATNCQCPILHTRPEATNMSGLTIASTNSRLLACGPTLHRVGENNSK 121

Db 121 GSCLLIGSRMELIQTVDATPCEHQEMDIVPLDGSSIDQNDFNQMKFGVQAMGQFB 18C

Db 122 GSCLLIGSRMELIQTVDATPCEHQEMDIVPLDGSSIDQNDFNQMKFGVQAMGQFB 181

Db 181 GSTDTLFALMQSNLNUKIHFTFQRTTSPSQSLUDPIVOLKGLTTATGILTVTQLEHH 240

Db 182 GSTDTLFALMQSNLNUKIHFTFQRTTSPSQSLUDPIVOLKGLTTATGILTVTQLEHH 241

Db 241 KNGARKSAKKLILVITDGQKXKDPLBYSVDPVQAEKAGITRYAIGVGHAFQGPTARQELN 300

Db 242 KNGARKSAKKLILVITDGQKXKDPLBYSVDPVQAEKAGITRYAIGVGHAFQGPTARQELN 301

Db 301 TISAPPQDRYFKVNDFAALGSIQKLOQEYKIVAYFGTQGRASSPHENQSEGFLSTM 360

Db 302 TISAPPQDRYFKVNDFAALGSIQKLOQEYKIVAYFGTQGRASSPHENQSEGFLSTM 361

Db 361 DFLFLGAVGSPSSWGGAFLYPPNPMPTFIMNSOENDMDSYGYSTELALKVONLYL 420

Db 362 DFLFLGAVGSPSSWGGAFLYPPNPMPTFIMNSOENDMDSYGYSTELALKVONLYL 421

Db 421 GAFRQHGTGKAVITQVSROWRKAKVTGQIGSYFGASLCVSDVSDSTPLLIGAPH 480

Db 422 GAFRQHGTGKAVITQVSROWRKAKVTGQIGSYFGASLCVSDVSDSTPLLIGAPH 481

Db 481 YVEQTREGQSVCPPLRGQVQWQDAVTRGEQCPHGFGLTJVLGVNEDKIDVAI 540

Db 482 YYEQTRGQSVCPPLRGQVQWQDAVTRGEQCPHGFGLTJVLGVNEDKIDVAI 541

Db 541 GAFGEDENRGAVYLPGASSESGISPSHSORIASOSSPLRQYFQFQALSGQDQTLGMD 600

Db 542 GAFGEQENRGAVYLPGASSESGISPSHSORIASOSSPLRQYFQFQALSGQDQTLGMD 601

Db 602 GAFGEQENRGAVYLPGASSESGISPSHSORIASOSSPLRQYFQFQALSGQDQTLGMD 602

Db 661 SLQDQGIDQSSYRFDALDPGRLTSRAINFNETKPLTRRKGJGJGSETKLLPDCV 720

Db 662 SLQDQGIDQSSYRFDALDPGRLTSRAINFNETKPLTRRKGJGJGSETKLLPDCV 721

QY 721 EDVMSPLILNFSLYTREPISPPQNRPVAVGSGCLFTASLPPERNCCQDGLGEGDGV 780

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on:

August 26, 2003, 10:24:28 ; Search time 91 Seconds

(without alignments)

2025.072 Million cell updates/sec

Title: US-09-891-943-2

Perfect score: 5987

Sequence: 1 TFGIVLILSVLASYHGFNLD. .... DDTATFSGDDFSCVAPNPLS 1161

Scoring table: BIOSM62

Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters:

1107863

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : A\_Geneseq\_19Jun03,\*

1: /SIDS1/gcdata/geneseq/geneseq/geneseq-emb1/AA1980.DAT:\*

2: /SIDS1/gcdata/geneseq/geneseq/geneseq-emb1/AA1981.DAT:\*

3: /SIDS1/gcdata/geneseq/geneseq/geneseq-emb1/AA1982.DAT:\*

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5: /SIDS1/gcdata/geneseq/geneseq/geneseq-emb1/AA1984.DAT:\*

6: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1985.DAT:\*

7: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1986.DAT:\*

8: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1987.DAT:\*

9: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1988.DAT:\*

10: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1989.DAT:\*

11: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1990.DAT:\*

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17: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1996.DAT:\*

18: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1997.DAT:\*

19: /SIDS1/gcdata/geneseq/geneseq-emb1/AA1998.DAT:\*

20: /SIDS1/gcdata/geneseq/geneseq-emb1/AA2000.DAT:\*

21: /SIDS1/gcdata/geneseq/geneseq-emb1/AA2001.DAT:\*

22: /SIDS1/gcdata/geneseq/geneseq-emb1/AA2002.DAT:\*

23: /SIDS1/gcdata/geneseq/geneseq-emb1/AA2003.DAT:\*

24: /SIDS1/gcdata/geneseq/geneseq-emb1/AA2003.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	5987	100.0	1161 16 AAR78166	Human beta-2 integrin
2	5987	100.0	1161 18 AAW23149	Human beta-2 integrin
3	5987	100.0	1161 19 AAW72925	Human alpha-d
4	5987	100.0	1161 19 AAW57491	Human beta-2 integrin
5	5987	100.0	1161 21 AAB07159	Human alpha-d clon
6	5987	100.0	1161 23 ABG61168	Human Beta-2 integrin
7	5981	99.9	1161 19 AAW65089	Human Beta-integri
8	5981	99.9	1161 20 AAW73342	Human alpha-d prote
9	5971.5	99.7	1161 18 AAW23164	Human beta-2 integrin
10	5971.5	99.7	1161 19 AAW2837	Human alpha-d dexi
11	5971.5	99.7	1161 19 AAW63106	Human Beta-integri
12	5971.5	99.7	1161 20 AAW3343	Human alpha-d prote
13	5971.5	99.7	1161 21 AAB07376	Human alpha-d prot
14	5971.5	99.7	1161 23 ABG6485	Human Beta2 integr
15	4403.5	73.6	1161 18 AAW3062	Rat beta 2 integrin
16	4403.5	73.6	1161 19 AAW72824	Rat alpha-d #1
17	4403.5	73.6	1161 19 AAW6C04	Rat alpha-d compos
18	4403.5	73.6	1161 21 AAB07374	Rat alpha-d prote
19	4403.5	73.6	1161 23 ABG6483	Rat Beta2 integrin
20	4397.5	73.5	1161 19 AAW63104	Rat beta-integrin
21	4397.5	73.5	1161 20 AAW73345	Rat alpha-d protein
22	4395.5	73.4	1161 16 AAR78169	Rat alpha-d subunit
23	4365.5	72.9	1151 16 AAR78179	Rat alpha-d partia
24	4364.5	72.9	1151 23 ABG64480	Rat beta 2 integrin
25	4364.5	72.9	1151 19 AAW72834	Rat alpha-d #2
26	4364.5	72.9	1151 19 AAW63101	Rat beta-integrin
27	4364.5	72.9	1151 19 AAW63001	Rat alpha d polype
28	4364.5	72.9	1151 20 AAW73344	Rat alpha-d protein
29	4364.5	72.9	1151 21 AAB07371	Rat alpha_d partia
30	4364.5	72.9	1151 23 ABG64482	Rat Beta2 integrin
31	4305.5	71.9	1161 18 AAW23061	Mouse beta 2 integr
32	4305.5	71.9	1161 19 AAW72836	Mouse alpha-d #2
33	4305.5	71.9	1161 19 AAW63103	Mouse alpha-d subu
34	4305.5	71.9	1161 19 AAW62003	Mouse alpha d poly
35	4305.5	71.9	1161 20 AAW73347	Mouse alpha_d prote
36	4305.5	71.9	1161 21 AAB07373	Mouse alpha_d prot
37	4305.5	71.9	1161 23 ABG61482	Mouse Beta2 integr
38	4303.5	71.9	1161 15 AAR78168	Mouse alpha-d subu
39	4278.5	71.5	1151 16 AAR78167	Mouse alpha-d subu
40	4278.5	71.5	1155 18 AAW23060	Mouse beta 2 integr
41	4278.5	71.5	1155 19 AAW72835	Mouse alpha-d #1
42	4278.5	71.5	1155 19 AAW65102	Mouse beta-integri
43	4278.5	71.5	1155 19 AAW60002	Mouse alpha d poly
44	4278.5	71.5	1155 20 AAW73346	Mouse alpha d prote
45	4278.5	71.5	1155 21 AAB07372	Mouse alpha_d prote

#### ALIGNMENTS

##### RESULT 1

AKR78166  
 ID ARR78166 standard; Protein: 1161 AA.

XX

AC AAR78166;

XX

DE 28-DEC-1995 (first entry)

XX

DE Human beta-2 integrin alpha-d.

XX

KW Beta-2 integrin alpha-d subunit; antiinflammatory; arteriosclerosis;

XX

KW inflammatory bowel disease; asthma.

XX

OS Homo sapiens.

XX

XX KEY Location/Qualifiers

XX Domain

XX /note="extracellular domain"

XX 150..352

XX /note="this region is homologous to the insert common to Chilab,c and may be a site for interaction with ICAM family proteins"

XX FT Binding-site

XX 465..474 /note="putative cation binding site"

XX FT Binding-site

XX 518..527 /note="putative cation binding site"

XX FT Binding-site

XX 592..600 /note="putative cation binding site"

XX FT Region

XX 1109..1128 /note="transmembrane region"

XX FT Domain

XX /note="cytoplasmic domain"

XX	W09517412-A1.	Db	541 GACGCGEORGAVLVLHGASESISPSHSQRVASCISPRLOYFGQALSGGDLTQDGLMD 600
PN		Db	601 LAVGARGCVLLRLSPVLUKGVMARPSPEVAKAVRCWEEKPSALEAGDATVCLTIKS 660
XX		Db	601 LAVGARGCVLLRLSPVLUKGVMARPSPEVAKAVRCWEEKPSALEAGDATVCLTIKS 660
PD	29-JUN-1995.	Db	661 SJQLGDIQSSRFDIALDPGKTSRAIFNFSKPNPILTRRKLGLGICHECTKLLPDCV 720
XX		Db	661 SJQLGDIQSSRFDIALDPGKTSRAIFNFSKPNPILTRRKLGLGICHECTKLLPDCV 720
PR	05-AUG-1994; 94US-0286889.	Db	720 TLSFGQIQLTQVSSLELNVIVTVMRAGEDSQTGTVVSIYYPAGEHRRVSGAQKQPHSA 840
XX	23-DEC-1993; 93US-0173497.	Db	721 EDVNSPILHNLNSLVBPISPONLUPVLAVGQDIFTASLPEFEKNCGQDCEGDLGV 780
PA	(ICOS-) ICOS CORP.	Db	721 EDVNSPILHNLNSLVBPISPONLUPVLAVGQDIFTASLPEFEKNCGQDCEGDLGV 780
PI	Galatin WM, Van Der Vieren M;	Db	781 TLSFGQIQLTQVSSLELNVIVTVMRAGEDSQTGTVVSIYYPAGEHRRVSGAQKQPHSA 840
XX		Db	781 TLSFGQIQLTQVSSLELNVIVTVMRAGEDSQTGTVVSIYYPAGEHRRVSGAQKQPHSA 840
DR	WPI: 1995-240603/31.	Qy	841 LRACETYPTEDBGLRSRCSRCSNHPFHEGSNTFVTFDVSYKATLGDRMMRASSE 900
DR	N-PSOB; AAQ91712.	Db	841 LRACETYPTEDBGLRSRCSRCSNHPFHEGSNTFVTFDVSYKATLGDRMMRASSE 900
PT	Alpha sub-unit polypeptide of human beta 2 integrin - used to identify potential antiinflammatory agents, for the treatment of graft arteriosclerosis, inflammatory bowel disease, asthma, etc.	Qy	901 NNKASSRATQFQELPKYAVTMKIRQBESTKTFPATSDEKKAEBHRVNNLSSQR 960
PT	alpha-TM1 was used to screen a human spleen cDNA library to identify clone 19A2 encoding the beta-1 integrin alpha-subunit, alpha-d.	Db	901 NNKASSRATQFQELPKYAVTMKIRQBESTKTFPATSDEKKAEBHRVNNLSSQR 960
CC	The cDNA was manipulated to allow expression of recombinant alpha-d subunit in COS and CHO cells.	Qy	961 DLALISINPWPVILNGVAVWDVMEAPSQSLPCVSEKKPQHsDFTLQKISSPMLDSCIA 1020
CC		Db	961 DLALISINPWPVILNGVAVWDVMEAPSQSLPCVSEKKPQHsDFTLQKISSPMLDSCIA 1020
XX		Qy	1021 DCQFRCCVPSVSSQEEDEFKGNISFGWRETLKRVLYVAETEDPSVSYOLPGC 1080
SO	Sequence 1161 AA;	Db	1021 DCQFRCCVPSVSSQEEDEFKGNISFGWRETLKRVLYVAETEDPSVSYOLPGC 1080
Query	Match 100.0%; Score 5987; DB 16; Length 1161;	Qy	1081 EAFRAQEMVLEDEJVNAILIMGSVGAILLAIATIYKLGFKKRHYKEMLEDKP 1140
Query	Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;	Db	1081 EAFRAQEMVLEDEJVNAILIMGSVGAILLAIATIYKLGFKKRHYKEMLEDKP 1140
Qy	1 TFGTVLILSVLASYHGSNLDVEPTIPOEDAGGFGGSVWQFGSRILVVGAPLEVVANOT 60	Qy	1141 EDTATFSGDDFSCVAPNPLS 1161
Db	1 TFGTVLILSVLASYHGSNLDVEPTIPOEDAGGFGGSVWQFGSRILVVGAPLEVVANOT 60	Db	1141 EDTATFSGDDFSCVAPNPLS 1161
Qy	61 GRLYPDIAMATGMQPLHIREPAVNNSLGTLAATNSTGSLLACPTLHRVCGNSYSK 120	Qy	
Db	61 GRLYPDIAMATGMQPLHIREPAVNNSLGTLAATNSTGSLLACPTLHRVCGNSYSK 120	Db	
Qy	121 GSCULLGSRWEIQTQVADATPSCPQHMDIVLIDSGS1DNDPQKMFQVQALMGQFE 180	Qy	
Db	121 GSCULLGSRWEIQTQVADATPSCPQHMDIVLIDSGS1DNDPQKMFQVQALMGQFE 180	Db	
Qy	181 GDTFLFALMQSNLKKHHTFTQFRSPSQSLVDP1VQKLGLTFATGILTVVQLQFH 240	Qy	
Db	181 GDTFLFALMQSNLKKHHTFTQFRSPSQSLVDP1VQKLGLTFATGILTVVQLQFH 240	Db	
Qy	241 KNGARKSAKKLILVITDQKYDPLKPSDVPOAEKAGIRYIAIGVGHAFQGPTARQELN 300	Qy	
Db	241 KNGARKSAKKLILVITDQKYDPLKPSDVPOAEKAGIRYIAIGVGHAFQGPTARQELN 300	Db	
Qy	301 TISSAPPDHVKYDVKYDPLKPSDVPOAEKAGIRYIAIGVGHAFQGPTARQELN 360	Qy	
Db	301 TISSAPPDHVKYDVKYDPLKPSDVPOAEKAGIRYIAIGVGHAFQGPTARQELN 360	Db	
Qy	361 DGLFLGAVGFSFMSGGFLYPPNMSPTFINNSQENTDMRDYLGLISTELAKWQVQNLV 420	Qy	
Db	361 DGLFLGAVGFSFMSGGFLYPPNMSPTFINNSQENTDMRDYLGLISTELAKWQVQNLV 420	Db	
Qy	421 GAPRYQHGTGKAVIFTQVSRQWRKKAETGTQIGSYVAGSLCSVVDSDGSTDLLGAPH 480	Qy	
Db	421 GAPRYQHGTGKAVIFTQVSRQWRKKAETGTQIGSYVAGSLCSVVDSDGSTDLLGAPH 480	Db	
Qy	481 YYEQTTRGQSVCPPLPQGRQVWQCDVLRGEGHGRFGAALTWTGQDNEKLDVIA 540	Qy	
Db	481 YYEQTTRGQSVCPPLPQGRQVWQCDVLRGEGHGRFGAALTWTGQDNEKLDVIA 540	Db	
Qy	541 GAPGEQENRGAFLFHGASESISPSHSQRASSQSPRQYFGQALSGGGDPLTQDGLMD 600	Qy	



Db	61	GRYDCAATGMQCPILHIREPAVNMSLGLTAASTNGSRLLACGPTLHRVGENSYSK	120
Qy	121	GSCULLGSRWEIQTVPDATBCHPQEMDVFLLDGSISIDONDINQMKFVQAVMGQFE	180
Db	121	GSCULLGSRWEIQTVPDATBCHPQEMDVFLLDGSISIDONDINQMKFVQAVMGQFE	180
Qy	181	GDTLFALMQSNLKHFTTQFRSPSQSLVDPVOLKGLTFTAGTGLTVTQFHH	240
Db	181	GDTLFALMQSNLKHFTTQFRSPSQSLVDPVOLKGLTFTAGTGLTVTQFHH	240
Qy	241	KNGARKSAKKILIVITDQKQYKDPLESDV1POAEKAGIRYAIQVGHAFQGPTARQELN	300
Db	241	KNGARKSAKKILIVITDQKQYKDPLESDV1POAEKAGIRYAIQVGHAFQGPTARQELN	300
Qy	301	TISSAPDHVPRVDFNFAALGS1QKQLEK1YAVEGTOSSRASSFOHMSOEGFSTALM	360
Db	301	TISSAPDHVPRVDFNFAALGS1QKQLEK1YAVEGTOSSRASSFOHMSOEGFSTALM	360
Qy	361	DGLFLGAVGFSWSGAFALYPPMSPTFIMSQENDVMRDYLSYLGYSTELAWKGVONLV	420
Db	361	DGLFLGAVGFSWSGAFALYPPMSPTFIMSQENDVMRDYLSYLGYSTELAWKGVONLV	420
Qy	421	GAPRYQHTGKAVIFTQSRWKKAETGQIGSTGASICSVVDSDGDTPLILGAPH	480
Db	421	GAPRYQHTGKAVIFTQSRWKKAETGQIGSTGASICSVVDSDGDTPLILGAPH	480
Qy	481	YBQTRGGQSVCPLRGQRYQWQCDCAVLRGQHGPGRGFAALTVLGVDNEKDUDV	540
Db	481	YBQTRGGQSVCPLRGQRYQWQCDCAVLRGQHGPGRGFAALTVLGVDNEKDUDV	540
Qy	541	GAPGEQENRGAVTFLFGASESGISPSHSORTASSOLSPRLQYFGQALSGQDITDQGLMD	600
Db	541	GAPGEQENRGAVTFLFGASESGISPSHSORTASSOLSPRLQYFGQALSGQDITDQGLMD	600
Qy	601	LAVGARGQVLLRSLPTKUFGAMRSPVYAKAVRCEWEEKPSALEAGATVCTIQLKS	660
Db	601	LAVGARGQVLLRSLPTKUFGAMRSPVYAKAVRCEWEEKPSALEAGATVCTIQLKS	660
Qy	661	SLDQLDQIQQSVPFDALDPERLTSAIFNETKNTPLTRERTLGLIHCETLKLPPDCV	720
Db	661	SLDQLDQIQQSVPFDALDPERLTSAIFNETKNTPLTRERTLGLIHCETLKLPPDCV	720
Qy	721	EDVSPILHNFSLREPISPSQNPVLAVGSDQDPLFTASLPPFKNCGODGLCGDGLV	780
Db	721	EDVSPILHNFSLREPISPSQNPVLAVGSDQDPLFTASLPPFKNCGODGLCGDGLV	780
Qy	781	TLSFSQHQLTVGSS1BLNVTWVMMAGEDSGTVVSLYYAGLSRRVGAQKOPHQSA	840
Db	781	TLSFSQHQLTVGSS1BLNVTWVMMAGEDSGTVVSLYYAGLSRRVGAQKOPHQSA	840
Qy	841	ZRLACETVPTEDEGLSSRCSYNHPFHEGNGTETVFTDVSYKATLGDEMMLRASSE	900
Db	841	ZRLACETVPTEDEGLSSRCSYNHPFHEGNGTETVFTDVSYKATLGDEMMLRASSE	900
Qy	901	NNKASSSKATQOLELPKQYVUTMISROBESKTFYFNFATSEDEKOMKAEFIRYVNLNSQR	960
Db	901	NNKASSSKATQOLELPKQYVUTMISROBESKTFYFNFATSEDEKOMKAEFIRYVNLNSQR	960
Qy	961	DLAISIHWFWPVPLNGAVWDVWMEAPSQSLPCVSRSRKPPOHSDFLTQISSPMDCSIA	1020
Db	961	DLAISIHWFWPVPLNGAVWDVWMEAPSQSLPCVSRSRKPPOHSDFLTQISSPMDCSIA	1020
Qy	1021	DQCFRCDVPSVQELDFTLKGNSFGWRETLQKLVLYVVA1TEPMSVQPGQ	1080
Db	1021	DQCFRCDVPSVQELDFTLKGNSFGWRETLQKLVLYVVA1TEPMSVQPGQ	1080
Qy	1081	EAFMRAQMEMVLEDEDTNATIMSSVGALLLITALITYKLGFFKRYKLEMEDKP	1140
Db	1081	EAFMRAQMEMVLEDEDTNATIMSSVGALLLITALITYKLGFFKRYKLEMEDKP	1140
Qy	1141	EPATPSDDDFSCVAPNPLS	1161

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OM protein - protein search, using sw model

Run on:

August 26, 2003, 10:32:48 ; Search time 32 Seconds

Sequence: 1535.091 Million cell updates/sec

Title: US-09-891-943-2

Perfect score: 5987

Sequence: 1 TFGAVLILLSVLASYHGFNUD.....DATFSGDDDFSCVAPNVPPLS 1161

Scoring table: BIOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued\_Patents\_AA:\*

1: /cgn2\_6/ptodata/1/iaa/5A\_COMB\_pep:\*

2: /cgn2\_6/ptodata/1/iaa/5B\_COMB\_pep:\*

3: /cgn2\_6/ptodata/1/iaa/6A\_COMB\_pep:\*

4: /cgn2\_6/ptodata/1/iaa/6B\_COMB\_pep:\*

5: /cgn2\_6/ptodata/1/iaa/PCTUS\_COMB\_pep:\*

6: /cgn2\_6/ptodata/1/iaa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

### SUMMARIES

Result: 1

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US-08-943-363-55
23	4364.5	72.9	1151	1 US-08-886-889-37
24	4364.5	72.9	1151	1 US-08-362-652-37
25	4364.5	72.9	1151	1 US-08-05-672-37
26	4364.5	72.9	1151	2 US-08-882-293A-37
27	4364.5	72.9	1151	2 US-08-882-293A-37

Result: 2

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US-08-943-363-55
23	4364.5	72.9	1151	1 US-08-886-889-37
24	4364.5	72.9	1151	1 US-08-362-652-37
25	4364.5	72.9	1151	1 US-08-05-672-37
26	4364.5	72.9	1151	2 US-08-882-293A-37
27	4364.5	72.9	1151	2 US-08-882-293A-37

Result: 3

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US-08-943-363-55
23	4364.5	72.9	1151	1 US-08-886-889-37
24	4364.5	72.9	1151	1 US-08-362-652-37
25	4364.5	72.9	1151	1 US-08-05-672-37
26	4364.5	72.9	1151	2 US-08-882-293A-37
27	4364.5	72.9	1151	2 US-08-882-293A-37

Result: 4

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US-08-943-363-55
23	4364.5	72.9	1151	1 US-08-886-889-37
24	4364.5	72.9	1151	1 US-08-362-652-37
25	4364.5	72.9	1151	1 US-08-05-672-37
26	4364.5	72.9	1151	2 US-08-882-293A-37
27	4364.5	72.9	1151	2 US-08-882-293A-37

Result: 5

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US-08-943-363-55
23	4364.5	72.9	1151	1 US-08-886-889-37
24	4364.5	72.9	1151	1 US-08-362-652-37
25	4364.5	72.9	1151	1 US-08-05-672-37
26	4364.5	72.9	1151	2 US-08-882-293A-37
27	4364.5	72.9	1151	2 US-08-882-293A-37

Result: 6

Result No.	Score	Query Length	DB ID	Description
1	5987	100.0	1161	US-09-193-043-2
2	5987	100.0	1161	4 JS-09-88-307A-2
3	5981	99.9	1161	1 US-08-173-497-2
4	5981	99.9	1161	1 JS-08-86-889-2
5	5981	99.9	1161	1 JS-09-85-618-2
6	5981	99.9	1161	1 US-08-362-652-2
7	5981	99.9	1161	2 US-08-05-672-2
8	5981	99.9	1161	2 US-08-882-293A-2
9	5981	99.9	1161	2 US-08-943-362-2
10	5971.5	99.7	1161	1 US-08-85-618-99
11	5971.5	99.7	1161	2 US-08-05-672-99
12	5971.5	99.7	1161	2 US-08-882-293A-99
13	5971.5	99.7	1161	2 US-08-843-363-99
14	5971.5	99.7	1161	3 US-09-193-043-99
15	5971.5	99.7	1161	4 US-09-88-307A-99
16	4903.5	73.6	1161	3 US-09-193-043-55
17	4445.5	73.6	1161	4 US-09-88-307A-55
18	4397.5	73.5	1161	1 US-08-85-618-55
19	4397.5	73.5	1161	1 US-08-362-652-55
20	4397.5	73.5	1161	2 US-08-05-672-55
21	4397.5	73.5	1161	2 US-08-882-293A-55
22	4397.5	73.5	1161	2 US

QY 301 TISSAPPQDHVKDINFALGSTOKQIQLQEKIYAVEGTOSRASSSFQHEMSEOGFSTALTM 360  
 Db 301 TISSAPPQDHVKDINFALGSTOKQIQLQEKIYAVEGTOSRASSSFQHEMSEOGFSTALTM 360  
 QY 361 DGLFLGAVGSFSMGGAFYPPMSPTFINNSQENTMDRSYLGSTELAKKGVONLV 420  
 Db 361 DGLFLGAVGSFSMGGAFYPPMSPTFINNSQENTMDRSYLGSTELAKKGVONLV 420  
 QY 421 GARYQHCKAVIFTQTSRMRKKAETGTOIGSYGASLCSVDVSDGSDSTLILGAPH 480  
 Db 421 GARYQHCKAVIFTQTSRMRKKAETGTOIGSYGASLCSVDVSDGSDSTLILGAPH 480  
 QY 481 YYEQTRGQSVQSPPLPRQRVQWQCDAVLRLGEOGHQWFRGAALTYLGVDNEDKUDVAI 540  
 Db 481 YYEQTRGQSVQSPPLPRQRVQWQCDAVLRLGEOGHQWFRGAALTYLGVDNEDKUDVAI 540  
 QY 541 GABGEQENRGAVYLPHGASESGISPSHSQRTASSQSLSPRQLQFGQLSGSDPTDGLMD 600  
 Db 541 GABGEQENRGAVYLPHGASESGISPSHSQRTASSQSLSPRQLQFGQLSGSDPTDGLMD 600  
 QY 601 LAVGARGQVLLRSLPVKVGAMRFSPEVEKAVERCWEKPSALEAGDATCIIQKS 660  
 Db 601 LAVGARGQVLLRSLPVKVGAMRFSPEVEKAVERCWEKPSALEAGDATCIIQKS 660  
 QY 661 SDLQDGIQSSVRFDLADPGRITSAIFNETKPNPLTRRKTLGICHTKLUPLDCV 720  
 Db 661 SDLQDGIQSSVRFDLADPGRITSAIFNETKPNPLTRRKTLGICHTKLUPLDCV 720  
 QY 721 EDVSPILHNLNSLVRREPQNLRLPVLAQSGQDIFTASLPEFENCGQDGLCSDLGV 780  
 Db 721 EDVSPILHNLNSLVRREPQNLRLPVLAQSGQDIFTASLPEFENCGQDGLCSDLGV 780  
 QY 781 TSLSGLQLTIVSSELEAVNIVTWNACEDSGTVVLYYRPLSRVSGRQKPHQSA 840  
 Db 781 TSLSGLQLTIVSSELEAVNIVTWNACEDSGTVVLYYRPLSRVSGRQKPHQSA 840  
 QY 841 LRLACETVPTEDCEGRSSRSVNPPIFHEGSNQTFPTFDVSYKATLGDMLMRASSSE 900  
 Db 841 LRLACETVPTEDCEGRSSRSVNPPIFHEGSNQTFPTFDVSYKATLGDMLMRASSSE 900  
 QY 901 NKKASSSKATQOLELPVKVAVYMSRQEESTKYNFATSDERKMEAEHRYVNLMSQR 960  
 Db 901 NKKASSSKATQOLELPVKVAVYMSRQEESTKYNFATSDERKMEAEHRYVNLMSQR 960  
 QY 961 DLAISINFVPUVPLNGVAVWDVMEAPSOLFCVSEKRPQNSDFLQTOISSPMLCIA 1020  
 Db 961 DLAISINFVPUVPLNGVAVWDVMEAPSOLFCVSEKRPQNSDFLQTOISSPMLCIA 1020  
 QY 1021 DCLQFRCDVPSFSVQEEELDFTLKGNLNSFGWVRETLQKLVLYSVAEITFDTSVSYQDQGQ 1080  
 Db 1021 DCLQFRCDVPSFSVQEEELDFTLKGNLNSFGWVRETLQKLVLYSVAEITFDTSVSYQDQGQ 1080  
 QY 1081 EAFLRAQMENVLEEDEVYNAIPTIMGGSSVGLLALITATYKQGPFKRYKEMEDKP 1140  
 Db 1081 EAFLRAQMENVLEEDEVYNAIPTIMGGSSVGLLALITATYKQGPFKRYKEMEDKP 1140  
 QY 1141 EDATNSGDFSCVAPNPLS 1161  
 Db 1141 EDATNSGDFSCVAPNPLS 1161  
 RESULT 2  
 US-09-688-307A-2  
 ; Sequence 2, Application US/09688307A  
 ; Patent No. 6432404  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Gallatin, Michael W.  
 ; APPLICANT: Van der Vieren, Monica  
 ; TITLE OF INVENTION: No. 6432404el Human Beta-2  
 ; FILE REFERENCE: 2786/36564  
 ; CURRENT APPLICATION NUMBER: US/09/688, 307A  
 ; CURRENT FILING DATE: 2000-10-13

QY 301 TISSAPPQDHVKDINFALGSTOKQIQLQEKIYAVEGTOSRASSSFQHEMSEOGFSTALTM 360  
 Db 301 TISSAPPQDHVKDINFALGSTOKQIQLQEKIYAVEGTOSRASSSFQHEMSEOGFSTALTM 360  
 QY 361 DGLFLGAVGSFSMGGAFYPPMSPTFINNSQENTMDRSYLGSTELAKKGVONLV 420  
 Db 361 DGLFLGAVGSFSMGGAFYPPMSPTFINNSQENTMDRSYLGSTELAKKGVONLV 420  
 QY 421 GARYQHCKAVIFTQTSRMRKKAETGTOIGSYGASLCSVDVSDGSDSTLILGAPH 480  
 Db 421 GARYQHCKAVIFTQTSRMRKKAETGTOIGSYGASLCSVDVSDGSDSTLILGAPH 480  
 QY 481 YYEQTRGQSVQSPPLPRQRVQWQCDAVLRLGEOGHQWFRGAALTYLGVDNEDKUDVAI 540  
 Db 481 YYEQTRGQSVQSPPLPRQRVQWQCDAVLRLGEOGHQWFRGAALTYLGVDNEDKUDVAI 540  
 QY 541 GABGEQENRGAVYLPHGASESGISPSHSQRTASSQSLSPRQLQFGQLSGSDPTDGLMD 600  
 Db 541 GABGEQENRGAVYLPHGASESGISPSHSQRTASSQSLSPRQLQFGQLSGSDPTDGLMD 600  
 QY 601 LAVGARGQVLLRSLPVKVGAMRFSPEVEKAVERCWEKPSALEAGDATCIIQKS 660  
 Db 601 LAVGARGQVLLRSLPVKVGAMRFSPEVEKAVERCWEKPSALEAGDATCIIQKS 660  
 QY 661 SDLQDGIQSSVRFDLADPGRITSAIFNETKPNPLTRRKTLGICHTKLUPLDCV 720  
 Db 661 SDLQDGIQSSVRFDLADPGRITSAIFNETKPNPLTRRKTLGICHTKLUPLDCV 720  
 QY 721 EDVSPILHNLNSLVRREPQNLRLPVLAQSGQDIFTASLPEFENCGQDGLCSDLGV 780